

Applicant: Gore *et al.*
Serial No.: 09/808,212
Filing Date: March 13, 2001
Amendment and Reply to Nonfinal Office Action
June 24, 2004
Page 2 of 5

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-9. (canceled)

10. (currently amended) A method of isolating an immunoglobulin comprising providing a solid support having bound thereto a protein and contacting a sample containing the immunoglobulin with the support, wherein the protein bound to the support is an immunoglobulin light chain binding protein which comprises:

(a) the amino acid sequence of SEQ ID NO: 1 modified by an amino acid substitution at one or more of positions 39, 53 and 57 and/or by an amino acid insertion between positions 59 and 60, such that the dissociation constant (Kd) of the protein with respect to human immunoglobulin ~~6-chain~~ kappa chain is 400 nM or more at pH 8, or

(b) the amino acid sequence of a corresponding immunoglobulin light chain binding domain modified by an amino acid substitution at one or more of the positions equivalent to positions 39, 53 and 57 of SEQ ID NO: 1 and/or by an amino acid insertion between positions equivalent to positions 59 and 60 of SEQ ID NO: 1, such that the dissociation constant (Kd) of the protein with respect to human immunoglobulin ~~6-chain~~ kappa chain is 400 nM or more at pH 8, or

(c) the amino acid sequence of a fragment of (a) or (b) which contains at least one said substitution and/or insertion, such that the dissociation constant (Kd) of the protein with respect to human immunoglobulin ~~6-chain~~ kappa chain is 400 nM or more at pH 8.

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Page 3 of 5

- 2 ~~11.~~ (previously presented) A method according to claim ~~10~~¹ wherein the immunoglobulin light chain binding protein comprises the amino acid sequence of SEQ ID NO: 1 having a histidine residue at position 39.
- 3 ~~12.~~ (previously presented) A method according to claim ~~10~~¹ wherein the immunoglobulin light chain binding protein comprises a phenylalanine residue at position 53 and/or an aspartic acid or histidine residue at position 57.
- 4 ~~13.~~ (previously presented) A method according to ~~12~~³ wherein the immunoglobulin light chain binding protein further comprises a tryptophan at position 39.
- 5 ~~14.~~ (previously presented) A method according to claim ~~10~~¹ further comprising extracting the immunoglobulin from the support.